



ENTERED

OIPE

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/771,961

DATE: 04/16/2002

TIME: 13:58:26

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\04162002\I771961.raw

```

4 <110> APPLICANT: Donoho, Gregory
5   Hilbun, Erin
6   Turner, C. Alexander Jr.
7   Friedrich, Glenn
8   Abuin, Alejandro
9   Zambrowicz, Brian
10  Sands, Arthur T.
12 <120> TITLE OF INVENTION: Novel Human BCL-X-Like Proteins and
13   Polynucleotides Encoding the Same
16 <130> FILE REFERENCE: LEX-0127-USA
C--> 18 <140> CURRENT APPLICATION NUMBER: US/09/771,961
C--> 18 <141> CURRENT FILING DATE: 2001-01-29
18 <150> PRIOR APPLICATION NUMBER: US 60/180,412
19 <151> PRIOR FILING DATE: 2000-02-04
21 <160> NUMBER OF SEQ ID NOS: 5
23 <170> SOFTWARE: FastSEQ for Windows Version 4.0
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 984
27 <212> TYPE: DNA
28 <213> ORGANISM: Homo sapiens
30 <400> SEQUENCE: 1
31 atgtgtagca ccagtggttg tgacctggaa gaaatcccc tagatgatga tgacctaaac      60
32 accatagaat tcaaaatcct cgcctactac accagacatc atgtcttcaa gagcaccct      120
33 gctctcttct caccaaagct gctgagaaca agaagtttgt cccagagggg cctggggaat      180
34 tggttcagcaa atgagtcagt gacagaggtg tcatggcctt gcagaaattc ccaatccagt      240
35 gagaaggcca taaaccttgg caagaaaaag tcttcttga aagcattctt tggagtagtg      300
36 gagaagggaag attcgacag cagcctgcc aaggtctctg ctcagggtca aaggacgttg      360
37 gaataccaag attcgacag ccagcagtgg tccaggtgtc tttctaactg ggagcagtgc      420
38 ttggagcatg aagctgtgga ccccaaagtc atttccattg ccaaccgagt agctgaaatt      480
39 gtttattcct ggccaccacc acaagcgacc caggcaggag gcttcaagtc caaagagatt      540
40 tttgtaactg aggtctctc cttccagctc caaggccacg tgctgtagc ttcaagttct      600
41 aagaaagatg aagaagaaca aatactagcc aaaattgttg agctgctgaa atattcagga      660
42 gatcagttgg aaagaaagct gaagaaagat aaggctttga tgggccactt ccaggatggg      720
43 ctgtcctact ctgttttcaa gaccatcaca gaccaggtcc taatgggtgt ggaccccgag      780
44 ggagaatcag aggtcaaagc tcagggtctt aaggctgccc ttgtaataga cgtcacggcc      840
45 aagctcacag ctattgacaa ccaccgatg aacagggtcc tgggctttgg caccaagtac      900
46 ctgaaagaga acttctcgcc atggatccag cagcacggtg gatgggaaaa aatacttggg      960
47 atatcacatg aagaagtaga ctga
49 <210> SEQ ID NO: 2
50 <211> LENGTH: 327
51 <212> TYPE: PRT
52 <213> ORGANISM: Homo sapiens
54 <400> SEQUENCE: 2

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/771,961

DATE: 04/16/2002

TIME: 13:58:26

Input Set : A:\Seqlist.txt

Output Set : N:\CRF3\04162002\I771961.raw

```

55 Met Cys Ser Thr Ser Gly Cys Asp Leu Glu Glu Ile Pro Leu Asp Asp
56 1 5 10 15 /
57 Asp Asp Leu Asn Thr Ile Glu Phe Lys Ile Leu Ala Tyr Tyr Thr Arg
58 20 25 30
59 His His Val Phe Lys Ser Thr Pro Ala Leu Phe Ser Pro Lys Leu Leu
60 35 40 45
61 Arg Thr Arg Ser Leu Ser Gln Arg Gly Leu Gly Asn Cys Ser Ala Asn
62 50 55 60
63 Glu Ser Trp Thr Glu Val Ser Trp Pro Cys Arg Asn Ser Gln Ser Ser
64 65 70 75 80
65 Glu Lys Ala Ile Asn Leu Gly Lys Lys Lys Ser Ser Trp Lys Ala Phe
66 85 90 95
67 Phe Gly Val Val Glu Lys Glu Asp Ser Gln Ser Thr Pro Ala Lys Val
68 100 105 110
69 Ser Ala Gln Gly Gln Arg Thr Leu Glu Tyr Gln Asp Ser His Ser Gln
70 115 120 125
71 Gln Trp Ser Arg Cys Leu Ser Asn Val Glu Gln Cys Leu Glu His Glu
72 130 135 140
73 Ala Val Asp Pro Lys Val Ile Ser Ile Ala Asn Arg Val Ala Glu Ile
74 145 150 155 160
75 Val Tyr Ser Trp Pro Pro Gln Ala Thr Gln Ala Gly Gly Phe Lys
76 165 170 175
77 Ser Lys Glu Ile Phe Val Thr Glu Gly Leu Ser Phe Gln Leu Gln Gly
78 180 185 190
79 His Val Pro Val Ala Ser Ser Ser Lys Lys Asp Glu Glu Glu Gln Ile
80 195 200 205
81 Leu Ala Lys Ile Val Glu Leu Leu Lys Tyr Ser Gly Asp Gln Leu Glu
82 210 215 220
83 Arg Lys Leu Lys Lys Asp Lys Ala Leu Met Gly His Phe Gln Asp Gly
84 225 230 235 240
85 Leu Ser Tyr Ser Val Phe Lys Thr Ile Thr Asp Gln Val Leu Met Gly
86 245 250 255
87 Val Asp Pro Arg Gly Glu Ser Glu Val Lys Ala Gln Gly Phe Lys Ala
88 260 265 270
89 Ala Leu Val Ile Asp Val Thr Ala Lys Leu Thr Ala Ile Asp Asn His
90 275 280 285
91 Pro Met Asn Arg Val Leu Gly Phe Gly Thr Lys Tyr Leu Lys Glu Asn
92 290 295 300
93 Phe Ser Pro Trp Ile Gln Gln His Gly Gly Trp Glu Lys Ile Leu Gly
94 305 310 315 320
95 Ile Ser His Glu Glu Val Asp
96 325
98 <210> SEQ ID NO: 3
99 <211> LENGTH: 759
100 <212> TYPE: DNA
101 <213> ORGANISM: Homo sapiens
103 <400> SEQUENCE: 3
104 atgtgtagca ccagtgggtg tgacctggaa gaaatcccc tagatgatga tgacctaaac 60
105 accatagaat tcaaaatcct cgcctactac accagacatc atgtcttcaa gagcaccctt 120

```

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/771,961

DATE: 04/16/2002  
TIME: 13:58:26

Input Set : A:\Seqlist.txt  
Output Set: N:\CRF3\04162002\I771961.raw

```

106 gctctcttct caccaaagct gctgagaaca agaagtttgt cccagagggg cctggggaat 180
107 tgttcagcaa atgagtcag gacagaggtg tcatggcctt gcagaaattc ccaatccagt 240
108 gagaaggcca taaaccttgg caagaaaaag tcttcttggg aagcattctt tggagtagtg 300
109 gagaaggaag attgcagag cagcctgcc aaggtctctg ctcagggtca aaggacgttg 360
110 gaataccaag attgcacag ccagcagtgg tccaggtgtc tttctaactg ggagcagtgc 420
111 ttggagcatg aagctgtgga ccccaaagtc atttccattg ccaaccgagt agctgaaatt 480
112 gtttattcct ggccaccacc acaagcgacc caggcaggag gcttcaagtc caaagagatt 540
113 tttgtaactg agggctctct cttccagctc caaggccacg tgctgtagc ttcaagttct 600
114 aagaaagatg aagaagaaca aatactagcc aaaattgttg agctgctgaa atattcagga 660
115 gatcagttgg aaagaaagga cactgccttc atccccattc ccttggttga caccagcatc 720
116 cagggttttc cacaggatgg tttgatggcc tgcatttga 759
118 <210> SEQ ID NO: 4
119 <211> LENGTH: 252
120 <212> TYPE: PRT
121 <213> ORGANISM: Homo sapiens
123 <400> SEQUENCE: 4
124 Met Cys Ser Thr Ser Gly Cys Asp Leu Glu Glu Ile Pro Leu Asp Asp
125 1 5 10 15
126 Asp Asp Leu Asn Thr Ile Glu Phe Lys Ile Leu Ala Tyr Tyr Thr Arg
127 20 25 30
128 His His Val Phe Lys Ser Thr Pro Ala Leu Phe Ser Pro Lys Leu Leu
129 35 40 45
130 Arg Thr Arg Ser Leu Ser Gln Arg Gly Leu Gly Asn Cys Ser Ala Asn
131 50 55 60
132 Glu Ser Trp Thr Glu Val Ser Trp Pro Cys Arg Asn Ser Gln Ser Ser
133 65 70 75 80
134 Glu Lys Ala Ile Asn Leu Gly Lys Lys Lys Ser Ser Trp Lys Ala Phe
135 85 90 95
136 Phe Gly Val Val Glu Lys Glu Asp Ser Gln Ser Thr Pro Ala Lys Val
137 100 105 110
138 Ser Ala Gln Gly Gln Arg Thr Leu Glu Tyr Gln Asp Ser His Ser Gln
139 115 120 125
140 Gln Trp Ser Arg Cys Leu Ser Asn Val Glu Gln Cys Leu Glu His Glu
141 130 135 140
142 Ala Val Asp Pro Lys Val Ile Ser Ile Ala Asn Arg Val Ala Glu Ile
143 145 150 155 160
144 Val Tyr Ser Trp Pro Pro Gln Ala Thr Gln Ala Gly Gly Phe Lys
145 165 170 175
146 Ser Lys Glu Ile Phe Val Thr Glu Gly Leu Ser Phe Gln Leu Gln Gly
147 180 185 190
148 His Val Pro Val Ala Ser Ser Ser Lys Lys Asp Glu Glu Glu Gln Ile
149 195 200 205
150 Leu Ala Lys Ile Val Glu Leu Leu Lys Tyr Ser Gly Asp Gln Leu Glu
151 210 215 220
152 Arg Lys Asp Thr Ala Phe Ile Pro Ile Pro Leu Val Asp Thr Ser Ile
153 225 230 235 240
154 Gln Gly Phe Pro Gln Asp Gly Leu Met Ala Cys Ile
155 245 250
157 <210> SEQ ID NO: 5

```

## RAW SEQUENCE LISTING

DATE: 04/16/2002

PATENT APPLICATION: US/09/771,961

TIME: 13:58:27

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\04162002\I771961.raw

```

158 <211> LENGTH: 2132
159 <212> TYPE: DNA
160 <213> ORGANISM: Homo sapiens
162 <400> SEQUENCE: 5
163 gtcctaaacc tgaagaaagt ttagagcctg gggctctaaa ctacctgagt ctttccaaac      60
164 gacaagccaa gaagacctgt tgaaagtttc ctcttaagtt tcgtggagag agactcaggt      120
165 atagaaatat ccttactgcc acctgacctg aagcagaaga aatcacagac agcttccaga      180
166 ccaggcccaa catgtgtagc accagtgggt gtgacctgga agaaatcccc ctatgatgatg      240
167 atgacctaaa caccatagaa ttcaaaatcc tgcctacta caccagacat catgtcttca      300
168 agagcaccct tgctctcttc tcaccaaagc tgctgagaac aagaagtttg tcccagaggg      360
169 gcctggggaa ttgttcagca atgagtcac ggacagaggt gtcacggcct tgcagaaatt      420
170 cccaatccag tgagaaggcc ataaaccttg gcaagaaaaa gtcttcttgg aaagcattct      480
171 ttggagtagt ggagaaggaa gattcgaga gcacgcctgc caaggtctct gctcagggtc      540
172 aaaggacgtt ggaataccaa gattcgaca gccagcagtg gtccaggtgt ctttctaacg      600
173 tggagcagtg cttggagcat gaagctgtgg accccaaagt catttccatt gccaaccgag      660
174 tagctgaaat tgtttattcc tggccaccac cacaagcgac ccaggcagga ggcttcaagt      720
175 ccaaagagat ttttctaact gagggctctc ccttccagct ccaaggccac gtgcctgtag      780
176 cttcaagttc taagaaagat gaagaagaac aaatactagc caaaattgtt gagctgctga      840
177 aatattcagg agatcagttg gaaagaaagg acactgcctt catccccatt cccttggttg      900
178 acaccagcat ccagggtttt ccacaggatg gtttgatggc ctgcatttga gctaaagaat      960
179 gaacttctgt ctgctcgtg gagccaagct actgtactga gtgcttattc ttttgtacac      1020
180 agctgaagaa agataaggct ttgatgggac acttccagga tgggctgtcc tactctgttt      1080
181 tcaagaccat cacagaccag gtctaatggt gtgtggaccc caggggagaa tcagaggtca      1140
182 aagctcaggg ctttaaggct gcccttgtaa tagacgtcac ggccaagctc acagctattg      1200
183 acaaccaccc gatgaacagg gtctctgggt ttggcaccac gtacctgaaa gagaacttct      1260
184 cgccatggat ccagcagcac ggtggatggg aaaaaatact tgggatatca catgaagaag      1320
185 tagactgaaa tatcagattt gtcacagga atactctttg tctactgtgg tcctgtgcac      1380
186 gttggcctca gatggactac aggagattac aacgtacaag gcagatggag cattgacgtt      1440
187 ttcaaaacca ttattcctgt gactggagag gcatcaggag agggctcgtt cgtctccagc      1500
188 tcataaaatg tagcagcatc atccttgaca gtgatgtttt tcaggccctc cattgagaac      1560
189 ctgaggaaat ctgtaaagat aagtggatgt gttgtttcaa acgttcagaa cagataccat      1620
190 catcctgcct ttgttagctg ctgtagggaa agtgcgttac agatgtctgc tgacctcaca      1680
191 agagtgaaaa gataaactgt gcatgtgttt ccaaaaacgt ttctagtact atttattttt      1740
192 aaactacact tgggggtggc taatacctag gaagatgttg ctattcacgt tagtaaacag      1800
193 cctaaagaaa ctcttaggtt tactgtctaca tccatttgtt tggagaggta actgttgtct      1860
194 gtgccttttt gaaaaacttc catttggtac aaaattttta ctccaacacc cctcaaccc      1920
195 ttttctcagg gaccacacct cttcttccca aggtccctgg gaacttctca ttctttgtgg      1980
196 tagtacaatg attggtagca ggtaaaataa atacatagaa agacwamwrw caaaagagtg      2040
197 tcttctgatt agtaaggaat aagtcttctg gattatcaaa tggagttaat ttacataaaa      2100
198 atgctcaaaa cacttcttgg tacttaatgt ta                                     2132

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/771,961

DATE: 04/16/2002

TIME: 13:58:28

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\04162002\I771961.raw

L:18 M:270 C: Current Application Number differs, Replaced Current Application No  
L:18 M:271 C: Current Filing Date differs, Replaced Current Filing Date